

INTERNATIONAL SEARCH REPORT
ISRCORRInternational application No. EP06795628
PCT/IB2006/052770

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B19/00 A61B6/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61B A61N G21K G01T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/16965 A2 (TARGET LTD V [IL]; KIMCHY YOAV [IL]; AMRAMI RONI [IL]; BOUSKILA YONA []) 28 February 2002 (2002-02-28) page 27, line 25 - page 36, line 25	1-13,27
Y	-----	31-34
X	US 2004/037394 A1 (KURODA YOSHIKATSU [JP] ET AL) 26 February 2004 (2004-02-26) the whole document	1-13,27
X	US 6 847 838 B1 (MACEY DANIEL J [US] ET AL) 25 January 2005 (2005-01-25) the whole document	27
X	WO 02/39142 A2 (MARCONI MEDICAL SYS INC [US] KONINKL PHILIPS ELECTRONICS NV [NL]) 16 May 2002 (2002-05-16) abstract; figures 4,5a	27

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 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

15 May 2007

Date of mailing of the international search report

11 SEP 2007

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 603 124 B2 (MAUBLANT JEAN [FR]) 5 August 2003 (2003-08-05) the whole document -----	1
L, P, X	WO 2006/016368 A (VASTRACK LTD [IL]; KORNBLAU GIORA [IL]; BEN-ARI SHLOMI [IL]) 16 February 2006 (2006-02-16) the whole document -----	1-3, 8-12
X	US 3 794 840 A (SCOTT W) 26 February 1974 (1974-02-26) the whole document -----	1-3
X	US 3 777 148 A (MIRALDI F) 4 December 1973 (1973-12-04) column 4, line 33 - line 42; figure 3 -----	14-19
A	-----	20-26
X	US 5 933 517 A (GRANGEAT PIERRE [FR] ET AL) 3 August 1999 (1999-08-03) column 3, line 54 - column 4, line 27 -----	14-19
X	US 4 250 392 A (LEASK JOHN C [US] ET AL) 10 February 1981 (1981-02-10) abstract -----	14-19
X	EP 0 273 257 A (SIEMENS AG [DE]) 6 July 1988 (1988-07-06) page 3, line 10 - line 18 -----	14-17
X	FR 1 561 351 A (COMMISSARIAT A L'ENERGIE ATOMIQUE) 28 March 1969 (1969-03-28) the whole document -----	14-17
X	GB 2 330 263 A (BARR & STROUD LTD [GB]) 14 April 1999 (1999-04-14) abstract -----	14-19
Y	KIRSCH S ET AL: "REAL TIME TRACKING OF TUMOR POSITIONS FOR PRECISION IRRADIATION" CARS. COMPUTER ASSISTED RADIOLOGY AND SURGERY. PROCEEDINGS OF THE INTERNATIONAL CONGRESS AND EXHIBITION. PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON COMPUTER ASSISTED RADIOLOGY AND SURGERY. XX, XX, 24 June 1998 (1998-06-24), pages 262-264. XP001061283 the whole document -----	31-34

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-27, 31-34

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

International Application No. PCT/ IB2006/ 05277

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13, 27

Angle responsive radiation sensor arranged to have a working volume of at least 10 cm in depth and having an angular width such that an accuracy of better than 3 mm over said working volume is achieved; method of designing a collimator leading to the required defined accuracy.

2. claims: 14-26

A radiation detector having multiple sections, and a collimator differentially collimating radiation on each of those sections such as to have multiple focusing points; method of designing a collimator having a linear-like angular response.

3. claims: 28-30

Collimator set comprising at least two collimators having different angular and/or depth ranges.

4. claims: 31-34

Method of tracking a radioactive object comprising the step of re-aiming the sensor according to angular offset by automatic circuitry.

INTERNATIONAL SEARCH REPORT
Information on patent family members

EP06795628

International application no.
PCT/IB2006/052770

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0216965	A2	28-02-2002	AU CN EP JP US	7272701 A 1469720 A 1326531 A2 2004512502 T 2004015075 A1		04-03-2002 21-01-2004 16-07-2003 22-04-2004 22-01-2004
US 2004037394	A1	26-02-2004	DE JP	10322712 A1 2003337176 A		04-03-2004 28-11-2003
US 6847838	B1	25-01-2005	NONE			
WO 0239142	A2	16-05-2002	EP JP US US	1336120 A2 2004513373 T 2003111609 A1 6603123 B1		20-08-2003 30-04-2004 19-06-2003 05-08-2003
US 6603124	B2	05-08-2003	AT AU DE EP ES WO FR US	334405 T 5990000 A 60029588 T2 1188070 A1 2269162 T3 0079301 A1 2795526 A1 2003111611 A1		15-08-2006 09-01-2001 09-08-2007 20-03-2002 01-04-2007 28-12-2000 29-12-2000 19-06-2003
WO 2006016368	A	16-02-2006	EP	1805506 A2		11-07-2007
US 3794840	A	26-02-1974	NONE			
US 3777148	A	04-12-1973	NONE			
US 5933517	A	03-08-1999	CA EP FR JP	2124905 A1 0627702 A1 2706043 A1 7071941 A		03-12-1994 07-12-1994 09-12-1994 17-03-1995
US 4250392	A	10-02-1981	NONE			
EP 0273257	A	06-07-1988	US	4820924 A		11-04-1989
FR 1561351	A	28-03-1969	NONE			
GB 2330263	A	14-04-1999	NONE			